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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/731,807	12/09/2003	Charles Phillip Miller	9453	4337	
27752	7590 01/24/2005		EXAMINER		
THE PROCTER & GAMBLE COMPANY			PRETLOW, DEMETRIUS R		
	INTELLECTUAL PRÓPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161			PAPER NUMBER	
6110 CENTER HILL AVENUE			2863		
CINCINNA	TI, OH 45224		DATE MAILED: 01/24/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

			NA			
	Application No.	Applicant(s)				
	10/731,807	MILLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Demetrius R. Pretlow	2863	•			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence addres	is			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a lf NO period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N). R 1.136(a). In no event, however, may a re. In reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this commu	nication.			
Status						
1) \boxtimes Responsive to communication(s) filed on $\underline{0}$	8 December 2003.					
	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application	on.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1,5 is/are rejected.						
7)⊠ Claim(s) <u>2-4,6</u> is/are objected to.	☑ Claim(s) <u>2-4,6</u> is/are objected to.					
8) Claim(s) are subject to restriction an	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	niner.					
•)⊠ The drawing(s) filed on <u>09 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the cor	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	.121(d).			
11) The oath or declaration is objected to by the	•	•	· ·			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	aign priority under 35 LLS C. &	119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docum		119(a)-(u) 01 (1).				
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the papplication from the International But		eceived in this National Stag	je			
* See the attached detailed Office action for a		eceived.				
An						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) T 1 4 1					
2) 🛛 Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🗀 Interview Su Paper No(s)	ımmary (PTO-413) /Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB, Paper No(s)/Mail Date <u>2/23/04</u>. 		ormal Patent Application (PTO-152)			

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 28 of copending Application No. (10/324,368) (2003/0136495) in view of Jensen, Jr. (US 4,795,513).

10/731807

(10/324,368) (2003/0136495)

1. A method for registering an off-line produced web having preproduced objects longitudinally spaced at a pitch interval to a
converting line manufacturing disposable absorbent articles.

such as diapers, pull-ups. feminine hygiene articles, and the like,
or a component of a disposable absorbent article, the off-line
produced web being manipulated as a controlled web in order
for the pre-produced object of the controlled web to be
registered in relation to a target bias position and in control

28. A method for registering an off-line produced web having pre-produced objects longitudinally spaced at a pitch interval to a converting line manufacturing disposable absorbent articles, such as diapers, pull-ups, feminine hygiene articles, and the like, or a component of a disposable absorbent article, the off-line produced web being manipulated as a controlled web in order for the pre-produced object of the controlled web to be registered in relation to a target bias position constant and in

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automatically with the pitched unit operation, and automatically phase the target position bias, the method comprising the steps

- a. providing a controlled web having pre-produced objects spaced at a controlled pitch interval, wherein the controlled web being provided at a controlled velocity in a machine direction; b. providing an actual bias position of the pre-produced object on the controlled web by detecting the pre-produced object with a sensor within a manufacturing cycle of a pitched unit operation;
- c. providing the target bias position at a desired position within a manufacturing cycle of the pitched unit operation;
- d. generating a correction signal based upon the actual bias position data and the target bias position constant;
- e. adjusting the controlled velocity of the controlled web in order to register the pre-produced object of the controlled web in relation to the target bias position constant;
- f. coupling the pitched unit operation with a controlled web metering point by providing a converter position reference signal fed forward from the pitched unit operation functioning as an independent axis to the controlled web metering point functioning as a dependent axis in order for the pre-produced object of the controlled web be in phaseautomatically with the pitched unit operation; and
- g. adjusting the target position in order to phase the actual position based on the controlled web bias.

phase automatically with the pitched unit operation, the method comprising the steps of:

- a. providing a controlled web having pre-produced objects
 spaced at a controlled pitch interval, at a controlled velocity in a machine direction;
- b. providing an actual bias position data based upon the captured production images of the pre-produced objects of the controlled web and comparing the captured production images to one or more stored reference images by a machine vision system;
- c. providing the target bias position constant at a desired position within a manufacturing cycle of the pitched unit operation;
- d. generating a correction signal based upon the actual bias position data and the target bias position constant;
- e. adjusting the controlled velocity of the controlled web in order to register the pre-produced object of the controlled web in relation to the target bias position constant; and
- f. coupling the pitched unit operation with a controlled web metering point by providing a converter position reference signal fed forward from the pitched unit operation functioning as an independent axis to the controlled web metering point functioning as a dependent axis in order for the pre-produced object of the controlled web be in phase automatically with the pitched unit operation.

Note Jensen, Jr. column 4, lines 8-20.

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Miller (2003/0136495) does not claim adjusting the target position in order to phase the actual position based on the controlled web bias. Jensen, Jr. (US 4,795,513) teach perforated pattern sensing means is provided at a point near the laminating nip whereby the spacing of the perforated patterns relative the laminating nip may be determined. The phasing error between an incoming perforated pattern on the paper web and an incoming target area on the film web is determined by comparison of a signal generated by the pattern sensing means to the film monitoring means signal. This determined phasing error is used to regulate the film entry nip control means whereby the tension in the film control zone is varied for a short duration to place the film target areas in proper registry with the perforated patterns which the examiner interprets as adjusting the target position in order to phase the actual position based on the controlled web bias.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention Miller to include the teaching of Jensen, Jr. because it would regulate the film entry nip control means. Note Jensen, Jr. column 4, lines 16-17.

In reference to claim 5, Miller (2003/0136495) and Jensen, Jr. (US 4,795,513) do not claim the control web is processed at a constant web tension. Jensen (US4,795513) teach control web is processed at a constant web tension. Note Jensen column 8, lines 10-13.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention Miller to include the teaching of Jensen because it would accommodate use of different types of films or films of different thicknesses or widths. Note column 5, line 9-14.

Claim Objections

Claim 2 is objected to because of the following informalities:

In claim 2, lines 17-18, states --the target bias position constant--, there is a lack of antecedent basis.

Is the --target bias position-- in line 15 the same as --the target bias position constant-- in lines 17-18?

Claim 3, 4 and 6 are objected to for depending on objected base claim.

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Appropriate correction is required.

Allowable Subject Matter

Claims 2-4 and 6 would be allowed if formal matters above are resolved.

The best prior art of record particularly, Henry et al. (US 6,444,064 B1), teach a registration system and a method useful for controlling and correcting the phase and position of simultaneously advancing webs having pre-printed objects spaced at a pitch length characterized by small but significant pitch variation to a target web. However Henry et al. does not teach following claim limitations.

The primary reason for the allowance of claims 2-4 is the inclusion of the method steps of coupling the first pitched unit operation with at least one controlled web metering point by providing a converter position reference signal fed forward from the second pitched unit operation functioning as an independent axis to the controlled web metering point functioning as a dependent axis in order for the pre-produced object of the controlled web be in phase automatically with the first pitched unit operation; inferring the pre-produced object pitch from the registration control loop output and using feedforward gain to automatically adjust a target phase offset position of the second pitched unit operation in order to compensate for variations in the pre-produced object pitch and to maintain the proper phase relationship. It is these steps found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Demetrius R. Pretlow whose telephone number is (703) 272-2278. The examiner can normally be reached on 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dent Rotto 1/12/05

Demetrius R. Pretlow

Patent Examiner

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